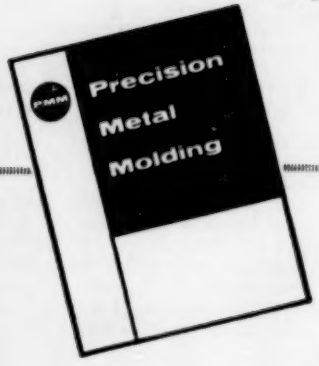
A SUMMARY OF

TECHNICAL LITERATURE

appearing in PRECISION METAL MOLDING MAGAZINE during the past year

Reference data, catalogs, manuals and other technical literature relating to die castings, investment castings, permanent mold castings, plaster mold castings, powdered metal parts and shell mold castings . . . and the materials and equipment for producing, machining, finishing and assembling them.



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PROCESSES

DIE CASTINGS

Modern Die Casting: The Dollin Corp. has published a new brochure on its modern high speed die casting procedures. All of the facilities of the plant from initial estimating to machining the finished casting are fully described and illustrated.

Circle No. 1

Die Castings: A four page brochure has been prepared by the Doehler-Jarvis Div. of National Lead Co. that illustrates a few of many complex die castings currently helping to lower production costs on both consumer and industrial goods.

Circle No. 2

Die Castings: In a four page brochure, the Wheaton Die Casting Corp. describes its facilities available for the production of quality die castings in both zinc and aluminum.

Circle No. 3

Die Casting Design Data: A new engineering data book on die castings has just been published. Contained are ADCI standard specifications, tolerance tables and physical properties of die casting alloys. The book, compiled by Parker White-Metal engineers, is designed to help engineers and buyers make more effective use of die castings and to give helpful design data.

Circle No. 4

Die Casting Bulletin: A multi-color brochure has been issued by the Grand Rapids Brass Co. Div., of Crampton Mfg. Co. giving information on the die casting process, examples of the products made by the company and a brief description of the design, manufacturing and finishing facilities available.

Circle No. 5

Die Cast Fasteners: Gries Reproducer Corp. has issued a bulletin describing and illustrating some of the many die cast fastening devices made by that company in zinc alloy.

Circle No. 6

Dies, Die Castings, Etc.: The facilities and experience of the Stemac Co. in the production of dies, die castings, engravings, stamps, name plates, etc. are described in a brochure.

Circle No. 7

Specialists in Short-Run Die Castings: A brochure from a Page & Hall Mfg. Co., Inc. reports on the company's ability to produce short runs of zinc die castings economically. The brochure points out an average tool cost of $530 for 40 typical die cast jobs they have done.

Circle No. 8

Die Castings: Die castings and their manifold uses, particularly on some of the 1956 cars are described and illustrated in the latest (vol. 23, no. 4)issue of the Alloy Pot, published by The New Jersey Zinc Co.

Circle No. 9

Three Types of Castings: A new, two color, 24 page brochure describing the facilities of Hampden Brass and Aluminum Co. and giving much technical information on permanent mold, die and sand castings has been released.

Circle No. 10

Vacuum Die Casting: How to do die casting in a vacumm is told in literature that is ready for distribution by Nelmor Mfg. Co.

Circle No. 11

Die Casting Facilities: The engineering and technical skill as well as the plant facilities of Pressure Castings, Inc., are described and illustrated in a booklet.

Circle No. 12

Die Castings Unlimited: An informative brochure has been issued by Precision Castings Co., Inc. describing the die castings and the facilities of the seven plants operated by the company.

Circle No. 13

Engineering for Die Casting: A booklet has been prepared by the Light Metals Div. of Thompson Products Co. which gives engineering and design information as well as a description of the company's facilities.

Circle No. 14

Die Casting Facilities: The Hoover Co. has published a brochure describing the facilities of the company for producing all types of die castings. Numerous examples of simple and complex castings that have been produced are given.

Circle No. 15

Designing for Die Casting: Design and engineering pointers have been compiled into a booklet to aid the engineer who designs and specifies die castings by Litemetal Diecast, Inc.

Circle No. 16

ELECTROFORMING

Electroforming: Some of the possibilities and the advantages of making parts by electroforming are described and illustrated in a leaflet from Bart Laboratories Co., Inc.

Circle No. 17

INVESTMENT CASTINGS

Design Booklet: A new handbook on designing specifically for investment casting has been prepared by Midwest Precision Casting Co. The information in the booklet is of value to designers and prospective users of investment castings. Includes useful metal selection chart and other engineering data.

Circle No. 18

Investment Casting Process, Alloys, Design: Bulletin No. 1 of the Investment Casters Society has just been released for general distribution. This highly informative bulletin gives considerable design information, a listing of castable alloys (both ferrous and nonferrous) with their as cast physical and mechanical properties.

Circle No. 19

Investment Casting Survey: "A Critical Survey of Investment Castings" is the title of a new publication written for design and production engineers by the Arwood Precision Casting Corp.

Circle No. 20

The Investment Casting Process: A four page brochure describing the investment casting process and outlining some of the many advantages of this method of fabrication has been published by Eco Engineering Co.

Circle No. 21

Casting Facility Report: A 12 page facility report, containing helpful information for design engineers, purchasing agents and management executives, concerned with the development and procurement of castings, is now being released by Midwest Foundry Co.

Circle No. 22

Castability Chart: A guide to the standard investment casting alloys has been published by Precision Metalsmiths. Included in this single tabulation are the chemistry, mechanical and physical properties, castability, weldability, machinability, etc. for twenty six alloys, both ferrous and nonferrous.

Circle No. 23

INVESTMENT CASTINGS

(continued)

Investment Casting Design: A 12 page manual covering design, costs, application and manufacture of investment castings has been published by the Hitchiner Mfg. Co.

Circle No. 24

Applications of Investment Casting: In a four page brochure, the Scott Casting & Mfg. Co. gives a number of case histories showing how expensive machined parts were converted to investment castings. Dollar savings for several are given.

Circle No. 25

The Properties of Investment Castings: A comprehensive 15-page booklet has been issued by the Crucible Steel Co. of America on the investment casting process. Covered are design, manufacture, alloys, cost, etc. Three pages of tabulated physical properties are valuable for the designer.

Circle No. 26

Castability: Engineered Precision Casting Co. has a 24 page booklet on castability, its effect on alloy selection for the investment casting process. The text covers all factors in the investment casting of metals that are a function of the alloy.

Circle No. 27

Casting Metals: Three brochures from Howard Foundries briefly describe the facilities available for making castings in both ferrous and non-ferrous metals.

Circle No. 28

Nickel Alloy Castings: Properties of nickel alloy investment, sand and centrifugal castings are features of a new 16 pg. booklet from International Nickel.

Circle No. 29

The Mercast Process: What the Mercast process is, how it should be used and where it should be used is told in a brochure and a group of pamphlets available from Alloy Precision Casting Co. which produces castings by this process.

Circle No. 30

Investment Casting: A new booklet dealing with the investment casting process has been issued by the Austenal Laboratories, Inc. Numerous examples of cast parts are given as well as a table giving the chemistry, physical and mechanical properties of investment cast alloys.

Circle No. 31

PERMANENT MOLD CASTINGS

Copper Base Permanent Mold Castings: Typical examples of non-ferrous permanent mold castings are given in a brochure from B-Mold Div. of Buckeye Brass & Mfg. Co. Also given are comparisons with other methods of casting and a listing of alloys presently being cast.

Circle No. 32

Permanent Mold Castings: A new 32-page catalog issued by Alcaloy, Inc., describes some uses of their special aluminum bronze alloy. The company's jobbing facilities for producing permanent mold castings in this alloy are also presented. Features of the alloy are: high strength, non-sparking, non-magnetic and corrosion resistance.

Circle No. 33

Casting Handbook: A comprehensive guide to the design and specification of aluminum and magnesium sand, permanent mold and die castings has been announced by Rolle Mfg. Co. The advantages and disadvantages of each method are explored.

Circle No. 34

Permanent Mold Castings: Aluminum Casting & Engineering Co. has available a four page brochure concerning their products, facilities and personnel.

Circle No. 35

PLASTER MOLD CASTINGS

Vacuum Casting: A four page brochure on vacuum casting in plaster molds has been prepared by the Universal Casting Corp. A wide variety of impeller wheels that have been cast by this process are illustrated. A second brochure describes the process of plaster mold casting, its applications, the metals that can be cast, etc.

Circle No. 36

Antioch Process Castings: Specification sheets for a number of precision aluminum castings that have been made by the Antioch Process are available from Morris Bean & Co. These spec sheets show the large size and complexity that can be achieved by this casting process.

Circle No. 37

Intricate Parts from Plaster Molds: The production of intricate parts in non-ferrous metals is often the most economical when the parts are cast in plaster molds. Ohio Precision Castings, Inc. has a brochure describing the process and showing a few of the many castings that have been made.

Circle No. 38

POWDERED METAL PARTS

Powdered Metal Parts: The application of powder metallurgy to the production of high strength structural parts is told in a brochure from American Sinteel Corp.

Circle No. 39

Powdered Metal Parts: A four page brochure on the powdered metal process for fabricating parts has been issued by Merriman Bros., Inc. Many of the standard as well as unusual parts that can be made are shown.

Circle No. 40

Powder Metallurgy: The Metal Powder Press, published by the New Jersey Zinc Co. shows a number of applications of parts made from brass powder. Also available is a publication "The Uses of Brass and Other Nonferrous Powder Parts.

Circle No. 41

Standard Bearing Sizes: A new, 30 page catalog has been issued by the Keystone Carbon Co. which lists more than 1000 commercial bearing sizes for powdered metal bearings and bushings. Sleeve, flange, double and single hub spherical bearings and thrust washers are covered.

Circle No. 42

Powdered Metal Parts: A new brochure issued by the Chicago Powdered Metal Products Co. illustrates many parts that have been made from metal powders and give valuable design suggestions.

Circle No. 43

Powder Metallurgy Manual: An all-new, 48 page engineering manual has been published by the Amplex Div. of Chrysler Corp. Much of the basic design information needed by engineers to apply powder metal parts is contained in this manual.

Circle No. 44

Powdered Brass Compacts: A new technical bulletin has been prepared by Dixon Sintaloy, Inc. giving the composition, density, tensile strength and elongation for a series of nine different brasses made from metal powders. In addition to the physical and mechanical data presented some suggested applications of the different compositions are given.

Circle No. 45

Powder Metallurgy Hand Book: The Keystone Carbon Co. has published an 18 page book on powder metallurgy. Included are sections on the process, designing for powder metallurgy, typical physical properties of powder metal compacts, and a description of the facilities of the company.

Circle No. 46

Cut Costs With Metal Powders: Reese Metal Products Corp. has published a data sheet giving the approximate composition, average physical properties and illustrations of some different parts that have been made.

Circle No. 47

Powder Metallurgy News: Kwikset Powdered Metal Products Co. is now issuing an external house organ devoted to new and better applications of metal powder parts and illustrating some parts currently being made.

Circle No. 48

POWDER METAL PARTS *(continued)*

Powder Metallurgy Advantages: The savings in costs and the improved performance made possible through the use of powder metal parts are fully explained in a booklet from Yale & Towne Mfg. Co., Powder Metal Products Div.

Circle No. 49

Parts from Metal Powders: The Powdercraft Corp. has available a brochure that gives pertinent data on powdered metal parts.

Circle No. 50

Cut Manufacturing Costs: The use of parts made from metal powders is discussed in literature that has been published by the Chicago Powdered Metal Products Co.

Circle No. 51

Stock Sizes in Bushings: A brochure and stock size list have been issued by National Molded Products Co. to aid in the design of equipment around standard sized and stocked self lubricating bushings and bearings.

Circle No. 52

Cemented Carbide Guides: Three new publications have been released by Adamas Carbide Corp.: a complete listing and description of the line of tungsten carbide grades, a guide to help determine the proper tool nose radius and a pocket-sized selector guide to aid in the selection of the proper grade of carbide.

Circle No. 53

SHELL MOLD CASTINGS

Shell Mold Castings: A six page brochure published by the Central Foundry Div. of General Motors Corp. describes the shell mold casting process. Included are numerous examples of parts cast by this process.

Circle No. 54

Castings in Shell Molds: The Curtis Wright Corp., Metals Processing Div., now fully equipped to produce castings in ferrous base metals by shell mold, centrifugal, and sand mold methods, shows these facilities in a brochure. Typical castable alloys are given with their chemistry and physical properties.

Circle No. 55

Shell Molding News Bulletin: The Durez Plastics & Chemicals, Inc. issues the Durez Shell Molding News; a publication devoted to news about and information on the shell molding process and equipment and supplies for the process.

Circle No. 56

Shell Mold Magnesium Castings: A brochure has been issued by Utica Radiator Corp. describing the facilities for making magnesium castings by conventional sand casting and shell mold casting procedures.

Circle No. 57

Shell Cast Steels: An eleven page brochure has been prepared by the Electric Steel Foundry Co. Information on the shell mold casting process, examples of castings that have been made and a table listing the various castable steels is included.

Circle No. 58

SPECIAL CASTING PROCESSES

Ellis Castings: The new Ellis process for precision castings is described and a number of examples of close tolerance castings given in a brochure from the Howard Foundry Co.

Circle No. 59

Castings for Industry: The American Brake Shoe Co. has issued a new eight-page folder describing ABSCO metal castings. Five general engineering types of metal and several heat and wear resistant types are discussed. Physicals, mechanical properties and chemistry are given.

Circle No. 60

Standard Cast Shapes: About 3,000 standard cast shapes: rounds, flat round discs, gear blanks, hexagons, bushings and tubes, rings, channels, squares, etc. in brass, bronze, aluminum and Standardite metal are listed, together with drawings and tabular data, by Standard Foundry Products.

Circle No. 61

Continuous Casting: A five page brochure, issued by American Smelting & Refining Co. describes the continuous casting process used to produce bearing bronze. A comparison of sand, permanent mold and continuous cast structures is given and a table of sizes and weights of available stock bearing bronze.

Circle No. 62

Close Tolerance Steel Castings: Lebanon Steel Foundry has a four page brochure that describes the "Ceramicast" process for producing very close tolerance castings in ferrous metals.

Circle No. 63

MATERIALS AND EQUIPMENT

DIE CASTING ACCESSORIES

Piston & Plunger Rings: Detailed literature has recently been prepared by Auto-Diesel Piston Ring Co. giving full information, prices and sizes of the rings carried in stock.

Circle No. 64

Hydraulic Pressure Hose: Bulletin No. 157, published by Aeroquip Corp. describes and lists the hydraulic hose for non-flammable fluids.

Circle No. 65

Oil Temperature Control: To secure increased efficiency in die casting operations a heat exchanger is used. Bulletin 1.1K5 from the Ross Heater Div., American Standard & Sanitary Corp. describes these units.

Circle No. 66

Power Presses: A bulletin from Johnson Machine & Press Corp. describes and illustrates a full line of presses for trimming, forming, coining, etc.

Circle No. 67

Piston & Sealing Rings: Precision Piston Rings, Inc. has issued a bulletin giving the physical and mechanical data on piston rings for industrial applications. Data on eight different alloy compositions are given.

Circle No. 68

Pots, Goosenecks, etc.: ACF Industries, Inc. has prepared a brochure describing the melting pots, goosenecks, ingot molds and other industrial castings that can be supplied. Included is a listing of available melting pots by both size and type.

Circle No. 69

Flow Control Valves: Hays Mfg. Co. has technical reference folders available on their automatic flow control valves. They

DIECASTING ACCESSORIES *(continued)*

have also published a wall size chart giving time fill data for flow rates from 0.2 to 2.0 gpm.

Circle No. 70

DIE CASTING MACHINES

Die Casting Machines: A new illustrated brochure has just been released giving a complete description of the line of die casting machines manufactured by Lester-Phoenix, Inc. Charts give comparative sizes, capacities, etc. for both zinc and aluminum.

Circle No. 71

Die Casting Machine: The model 200 die casting machine built by Cleveland Automatic Machine Co. features 200 tons locking pressure and up to 18,000 psi pressure on the metal. This machine is fully described in a new bulletin just issued.

Circle No. 72

Die Casting Machines: A four-page brochure describing two models of 600-ton and one model of 900-ton locking pressure die casting machines has been published by Midwest Machine Co., Inc. The several new features of these machines are described.

Circle No. 73

Die Casting Machines & Presses: A new buyers' guide and general catalog has been issued by Lake Erie Engineering Co. Incorporated is a comprehensive chart relating the various types of presses to their most suitable production uses. Photos of the casting machines and presses, combined with the chart, aid in simplifying the choice of the most appropriate unit.

Circle No. 74

Small Die Casting Machines: In a 4 page brochure, American Die Casting Machinery Co. has described its 60 and 80 ton die casting machines, both hot and cold chamber.

Circle No. 75

Swiss Die Casting Machines: A new 600 ton die casting machine that utilizes what is described as a three phase injection system is described in a bulletin that has been issued by Buhler Bros.

Circle No. 76

Small Die Casting Machines: In a four page brochure on machine tools and presses, Donald C. Seibert Co. described three sizes of die casting machines made by Hahn & Kolb of Stuttgart, Germany. Machine sizes are 33, 66 and 176 tons locking pressures.

Circle No. 77

Four Small Die Casting Machines: Specifications and design details of four small-size die casting machines, two hot chamber and two cold chamber, are given in a folder from DCMT Sales Corp. Casting capacities range from 2½ to 16 oz.; locking pressure 12,000 and 24,000 psi; and injection pressures of 1680 and 2300 psi.

Circle No. 78

Complete Line of Die Casting Machines: Kux Machine Co. has a catalog showing their complete line of hot and cold chamber die casting machines in a range of capacities.

Circle No. 79

Fast Die Set-Up: The latest catalog from Cast-Master, Inc. describes the features of their die casting machines that permits faster and safer set-up.

Circle No. 80

Increased Production of Castings: A new catalog that has been issued by Reed-Prentice describes the features of their die casting machines that permit faster cycling and higher injection pressures to give increased production.

Circle No. 81

Improved Mechanical Clamping: One of the features described in a new catalog from Hydraulic Press Mfg. Co. is the improved mechanical clamping methods used on their die casting machines.

Circle No. 82

Improved Die Casting Machines: Some of the many improvements, including central hydraulic ejector, are described in literature from Peco Machinery Sales, Ltd.

Circle No. 83

Die Casting Machines: Both hot and cold chamber die casting machines are completely described and illustrated in literature from B & T Sales Co.

Circle No. 84

DIES & MOLDS

For Die Designers: Detroit Mold Engineering has an external house organ, DME News, in which information of value to the designer of die casting dies is regularly published.

Circle No. 85

Die Design Guide: A new, highly informative, brochure has been issued by Permanent Mold Die Co., Inc. The plant facilities, typical molds and dies that have been made and the special services available are all described and illustrated. Tables of draft angles and shrinkage allowance tables are included.

Circle No. 86

Tool Steels: The first edition of the "Free Machining Tool and High Speed Mailer" has been issued by Allegheny Ludlum Steel Corp. The mailer gives information on analyses, red hardness, abrasion resistance, etc. of the company's tool and high speed steels.

Circle No. 87

Hardness Conversion: A handy hardness conversion chart, applicable to steels, has been published by The Babcock & Wilcox Co. Conversions are from Scleroscope to Brinell, Monotron and Vickers hardness. Another conversion table gives the conversion from Rockwell hardness to approximate tensile strength.

Circle No. 88

Alloy Steels: The Vanadium-Alloys Steel Co. has available a group of booklets describing its different alloy steels for dies and tools.

Circle No. 89

Tool Steels: A new 44-page book entitled "Tool Steels for the Non-Metallurgist" has been prepared by the Crucible Steel Co. of America. The book aims to present the basic information needed to understand tool steels without being overly technical.

Circle No. 90

Specialty Steel Guide: A new 32 page illustrated guide to specialty steels is now available to all steel users. Issued by The Carpenter Steel Co. the booklet defines the distinctive characteristics of a broad range of special purpose steels in terms of end use.

Circle No. 91

Tool Design Service: A leaflet describing a new service to industry has been published by the Euclid Industrial Design Corp. This company will undertake tool and die design in a wide variety of industries, including die casting dies and tools and molds for investment casting.

Circle No. 92

Graphite Molds: A new and revised data bulletin has been issued by National Carbon Co. on graphite molds for both ferrous and non-ferrous metals.

Circle No. 93

Precision Dowel Pins: Stock sizes of dowel pins from 0.016 dia. in steps of 1/64" and lengths from ⅛" in steps of 1/32", 1/16" and ¼" are listed in a new stock list that has been issued by All-Design Screw Mfg. Co., Inc.

Circle No. 94

Die Making Tools: A power-driven hand tool for die makers, for scraping, honing, milling, filling, etc. is fully described and illustrated in a new brochure issued by Nord International Corp.

Circle No. 95

Wide Mold Bases: Detroit Mold Engineering Co. has issued a pamphlet describing their new 10⅞" wide mold bases. The folder gives all of the pertinent information about this new line of stock bases.

Circle No. 96

DIES & MOLDS *(continued)*

Working of Tool Steels: Allegheny Ludlum Steel Corp. has a new Blue Sheet, No. 17. This is a 16 page report giving detailed information on the working of tool and high speed steels.

Circle No. 97

Beryllium Copper Dies: The Beryllium Corp. has published a new four page folder describing the applications of beryllium copper in the manufacture of zinc die casting dies as well as other metal forming dies.

Circle No. 98

Leader Pin & Bushing Counterboring: A special purpose tool designed to simultaneously counterbore for both leader pins and bushings is described in a folder that has been issued by Detroit Mold Engineering Co.

Circle No. 99

Metal Filled Epoxy Resin Casting Material: Shell Chemical Corp. has issued a reprint describing an aluminum powder-epoxy resin mixture that is recommended as a casting material for making master models for pantograph die sinking.

Circle No. 100

Hobbed Dies: How, when and why to hob dies is told in a booklet from Newark Die Hobbing & Casting Co.

Circle No. 101

FLUXES

Fluxes for Non-Ferrous Foundry Use: A descriptive brochure, specially for foundry superintendents and engineers charged with melting and pouring metal, has been issued by the Rossborough Supply Co. The action of fluxes and the most applicable material for any metal or alloy are discussed.

Circle No. 102

Aluminum Fluxes: A file folder on fluxes for melting aluminum has been issued by Apex Smelting Co. The file contains material on the use of fluxes, the proper selection of fluxes and other pertinent data.

Circle No. 103

Molten Metal Purification: Fluxes and molten purifiers to insure sound castings, eliminate undesirable gases, and provide sound welding of inserts into the castings, when desired, are fully described in literature published by Pittsburgh Metals Purifying Co.

Circle No. 104

Fluxes for Aluminum: A series of technical sheets and a listing of products has been issued by Kawecki Chemical Co. Included in the data sheets is information on chemical and physical properties, typical analyses and uses of the several materials available, especially important is a series of fluxes for improving aluminum alloys.

Circle No. 105

Zinc & Aluminum Fluxes: Fluxes for both zinc and aluminum dross separation are described in technical data available from Haviland Products Co.

Circle No. 106

Zinc Fluxes: The uses and advantages of fluxes when melting zinc are given in data sheets available from Atlantic Chemicals & Metals Co.

Circle No. 107

FOUNDRY EQUIPMENT

Automatic Gravity Casting: A fully illustrated information package published by Automation-Engineering Corp. describes and illustrates the automatic gravity pouring and casting machines built by the company.

Circle No. 108

Steel Belt Conveyors: Bulletins No. MF-2-413 and MF-530 have been issued by the May-Fran Engineering, Inc. describing the hinged steel conveyors made by that company.

Circle No. 109

Increased Crucible Life: A series of brochures is being issued by the Crucible Manufacturers' Association on "Getting the Most from Crucible Melting." No. 5 of this series on burner design and furnace combustion is now ready for distribution.

Circle No. 110

High-Temperature Refractories: A new 32 page catalog from Plibrico Co. covers the entire range of the company's products for the industrial furnace field. In addition to descriptions and illustrations of typical applications a material application chart is included.

Circle No. 111

Foundry Service Bulletin: An information service bulletin designed to give foundrymen and designers basic information to help produce better, sounder castings is issued regularly by Foundry Services, Inc. Bulletin No. 3 is currently available.

Circle No. 112

Stainless Steel Ladles: A catalog listing all of the available styles, sizes and types of stainless steel ladles together with prices has been issued by Spincraft, Inc.

Circle No. 113

FURNACES

Heat Treating Furnaces: Hints on heat treating tool steel is the subject of a highly informative report that has been published by K. H. Huppert Co. In addition, the report contains some general information on the use and care of electric heat treating furnaces.

Circle No. 114

Melting Furnaces: The complete line of standard furnaces for melting nonferrous metals is described in bulletins that are available from The Campbell-Hausfeld Co. Both stationary and tilting types are covered, gas and oil fired.

Circle No. 115

Automatic Pouring Unit: Two pamphlets have been issued by Ajax Engineeirng Co. on two new melting furnaces. One of these is a combined induction melting furnace, holding pot and automatic pouring unit that is particularly suitable for fully automatic die casting operations.

Circle No. 116

Non-Ferrous Melting Furnaces: In a 19 page catalog (bulletin no. 900) the Stroman Furnace & Engineering Co. has listed the physical and operational data of a wide range of furnaces made by the company.

Circle No. 117

Combustion & Heat Transfer: A new brochure, bulletin No. 108, that contains detailed diagrams and drawings, together with photographs of Thermal equipment has been issued by Thermal Research & Engineering Corp.

Circle No. 119

Metal Melting Furnace: In a six page brochure, Bulletin No. C-80, Eclipse Fuel Engineering Co. introduces a new dry hearth reverberatory furnace with either single or double dip-outs. Sizes, capacities, etc. are given.

Circle No. 120

Arc Melting: Bulletin No. 527 from Detroit Electric Furnace Co. describes a compact arc melting furnace. Melting time, power consumption, etc. for four different alloys are given.

Circle No. 121

Induction Melting: Lindberg Engineering Co. has issued bulletin 560 dealing with the improved metal quality possible when induction melting is used.

Circle No. 122

Bright Hardening Stainless Steel: Surface Combustion Corp. has just issued the latest edition of the Heat Treat Review. This issue is devoted to the bright hardening of stainless steel.

Circle No. 123

Heat Treating Furnaces: Auto-Control Laboratories have published a one page descriptive leaflet on the small and medium sized heat treating furnaces for tool and die work.

Circle No. 124

HYDRAULIC FLUIDS & EQUIPMENT

Direct Flow Pumps: Using two-color photographs and line drawings to illustrate pump construction and operation, a new bulletin from the Aldrich Pump Co. fully describes the line of direct flow pumps for service from 390 to 20,700 psi and displacements from 2.08 to 109.6 gpm.

Circle No. 125

Fire Resistant Fluids: An all new 19 page book on fire resistant hydraulic fluids has been prepared by Monsanto Chemical Co. All of the technical information needed to determine the applicability of Pydraul F-9 is given.

Circle No. 126

Quick-Acting Coupling: A new descriptive bulletin No. 230 on the quick-connect-disconnect high flow coupling has been issued by Snap-Tite, Inc. The bulletin describes the coupling, its uses and construction.

Circle No. 127

Hydraulic Tubing Fittings: A brochure from the Flodar Corp. describes a new, self-flaring tubing fitting for all sizes of tubes from ⅛" to 2" O.D. The fitting is said to give unrestricted fluid flow and to withstand greater pressure than the tubing it is used on.

Circle No. 128

Heat Exchangers: Heat exchangers for all plating, pickling and anodizing solutions are fully described and illustrated in a new catalog available from Carl Buck & Associates. Included are proper materials of construction for different solutions used and formulae for determining the size of of unit needed.

Circle No. 129

Heat in Hydraulic Circuits: An 8 page bulletin entitled "Heat, Its Generation and Natural Dissipation in Hydraulic Circuits," has been issued by The Oilgear Co. Included is information on heat transfer area, oil circulation rate, auxiliary pumps, power pumps and pipes and valves.

Circle No. 130

Hydraulic Fluid Filters: Complete technical data on filters for fire-resistant hydraulic fluids is available from Marvel Engineering Co.

Circle No. 131

Swivel Joints For Hydraulic Systems: Swivel joints in standard pipe sizes are described in data sheets from Barco Mfg. Co. No. 406 describes the new single plane swivel joint.

Circle No. 132

Fire Resistant Fluids: Hydraulic fluids that are fire resistant and available in a variety of viscosities are described in literature from The Celanese Corp. of America.

Circle No. 133

Synthetic Fluids & Lubricants: Carbide & Carbon Chemicals Co. has issued a 52 page book on synthetic fluids and lubricants. Covered are properties, applications and characteristics of these polyalkyleneglycol derivatives.

Circle No. 134

INVESTMENT CASTING SUPPLIES

Flask Pin & Bushing Catalog: Catalog F-1030 from Universal Engineering Co. features the complete line of flask pins and bushings. Standards in plain, tapered, round, hexagon and threaded series are all covered. Pins and bushings are carburized and hardened.

Circle No. 135

Investment Binder: Designed specifically as a binding agent for the investment casting industry a new product, Nalcoag, is described in bulletin S-743 from National Aluminate Corp.

Circle No. 136

Pattern Casting Wax: A new casting wax, PC-44, has been announced that is reported to have superior casting and molding characteristics for making investment casting patterns. Complete technical data on this wax, together with samples, can be obtained from the Wax Div., Petrolite Corp.

Circle No. 137

Wax Injection Presses: A new 8 page bulletin provides specifications, photos and prices on Sherwood wax injection presses for investment casting. Two models feature a new quicker acting and holding device. Alexander Saunders & Co. has issued the bulletin.

Circle No. 138

Melting Furnaces: Designed specifically for the investment casting foundry, both melting and burn out furnaces are described in literature available from the Surface Combustion Corp. Included in the descriptive brochure are some data on the characteristics of typical investment cast alloys.

Circle No. 139

Roll-Over Furnace for Investment Casting: A special furnace for investment casting, the "roll-over" model, is featured in a data sheet from Ajax Electrothermic Corp., which also includes reference to other types of Ajax melting equipment.

Circle No. 140

Vacuum Degasser: The Kinney Mfg. Div. of The New York Air Brake Co. offers Bulletin no. 402 which describes its new mobile vacuum degasser for purifying molten metals.

Circle No. 141

Investment Materials: Specifications and prices of investment materials for both ferrous and non-ferrous castings are ready for release from Centrifugal Casting Supply Co.

Circle No. 142

Investment Materials: Pre-Vest, Inc. has published a file folder concerned with the complete line of investment materials offered by the company. The various materials and their recommended uses are separately discussed.

Circle No. 143

Injection Molding Machines: A catalog describing some of their injection molding machines that are suitable for the production of disposable patterns in the investment casting industry has been issued by Van Dorn Iron Works, Inc.

Circle No. 144

Investment Materials: Amorphous type silica with low moisture content and controller pH in a particle size ranges from 1 to 15 microns is described in a brochure from Tamms Industries, Inc.

Circle No. 145

Investment Binders: Ethyl Silicates for investment casting is the subject of a new technical bulletin that has been issued by Montrose Chemical Co.

Circle No. 146

LUBRICANTS

Coolants & Lubricants: A booklet published by S. C. Johnson & Son, Inc. describes the company's line of metal working coolants and lubricants. Four pages of the booklet are devoted to cutting fluid charts giving comparative machinery ratings. Data covering machinability percentages with water-type and oil-type cutting fluids are also given.

Circle No. 147

Silicone Grease: A six page brochure has been issued by the Dow Corning Corp. describing the properties and uses of a silicone fluid-carbon black mixture designed for high temperature, slow speed bearings.

Circle No. 148

Lubrication Chart: A wall chart containing lubrication recommendations for many industrial needs is now available from E. F. Houghton & Co. The chart covers such applications as hydraulic systems, spindles, air compressors, reduction gears, etc.

Circle No. 149

Graphite Coatings: A fully revised six page catalog (Bulletin No. 435), entitled "Colloidal Graphite for Surface Coatings and Impregnation" has been published by Acheson Colloids Co.

Circle No. 150

Metal Working Lubricants: Fiske Brothers Refining Co. has just released a new circular on Metal Working Lubricants. The proper lubricant for all types of machine work is given as well as lubricants for drawing, extruding, die casting and hot die work.

Circle No. 151

Mold Release Agents: A brochure from Injection Molders Supply Co. describes both the silicone and zinc stearate mold release agents.

Circle No. 152

Molybdenum Disulfide: A field report, No. 138A, has been issued by The Alpha Molykote Corp. that shows, reportedly for the first time, the structure of individual flakes of molybdenum disulfide. Electron micrographs at a magnification of 24,000 X are given.

Circle No. 153

Metalworking Lubricants: A newly revised 4 page booklet, listing 42 colloidal and semi-colloidal dispersions for the metalworking, foundry, and related industries has just been issued by Acheson Colloids. Included are dispersions of graphite, molybdenum disulfide, mica, vermiculite, zinc oxide, and acetylene black. Carriers and diluents are given.

Circle No. 154

Die Lubrication Data: G. W. Smith & Sons, Inc. have published a wall chart giving the properties, uses, etc. of their complete line of metal working lubricants.

Circle No. 155

Silicone Products: A guide to the proper use and selection of silicone products has been published by the Dow Corning Co. Included in the eleven page brochure are two pages devoted exclusively to the use of silicone lubricants.

Circle No. 156

METAL POWDER

Carbonyl Iron Powder: The various grades of carbonyl iron powder and their industrial applications are fully described and their engineering properties given in a group of booklets published by the Antara Chemicals Div. of General Dyestuff Corp.

Circle No. 157

Stainless Steel Powders: The properties of stainless steel powders and the preferred processing methods for them are discussed in two engineering reports that are available from Alloy Metal Powders.

Circle No. 158

Hydride Produced Metals & Alloys: Metal Hydrides, Inc. has prepared a series of engineering reports on the properties and uses of several products. Covered are calcium hydride, titanium, titanium hydride, zirconium, zirconium hydride, and chromium-nickel pre-alloyed powder.

Circle No. 159

Titanium Powder: A new booklet has been issued by United International Research, Inc. that gives the properties and many of the uses of titanium powder. A short section is devoted to methods of production and to some of the special properties that can be secured in the powders.

Circle No. 160

Powdered Metals: The production and utilization of metal powders, particularly iron powder, is thoroughly covered in an 11 page brochure published by the Plastic Metals Div., National-U. S. Radiator Corp.

Circle No. 161

Prealloyed Metal Powders: Four bulletins have been issued by Vanadium-Alloys Steel Co. giving the properties, processing, and uses of stainless steel powders and alloy steel (type 4650-A) powders.

Circle No. 162

Powder Metallurgy Explained: Two brochures and a reprint that explain and graphically demonstrate the powder metallurgical processes are being distributed by the Hoeganaes Sponge Iron Corp.

Circle No. 163

Iron Powders: A group of very complete and highly informative data sheets giving chemical and physical properties of the powders and physical and mechanical properties of parts made from these powders are available from the Pyron Corp.

Circle No. 164

Nickel Powder: Data Sheets, PMS72 and 73, have been published by Plastic Metals Div. of National Radiator Corp. They list the chemical and physical properties of the nickel powder made by that company.

Circle No. 165

Non-ferrous Metal Powders: The uses and applications of brass and other nonferrous metal powders are given in a new publication of the New Jersey Zinc Co. The bulletin gives information on size ranges, shapes, strength, tolerances, etc. of parts made from these powders.

Circle No. 166

High Stability Metal Powders: A series of technical data sheets have been issued by the Glidden Co. giving the properties of their high stability-low oxide metal powders.

Circle No. 167

Electrolytic Iron Powder: The manufacture of high density—high strength parts from iron powder is covered in literature available from A. Johnson & Co.

Circle No. 168

Powdered Metal Spec. Sheets: A group of data sheets are available from American Metal Co., Ltd. giving the physical characteristics and properties of the powdered metals supplied by the company.

Circle No. 169

METALS & ALLOYS

Directory of Beryllium Copper: A revised edition of their product directory has been issued by The Beryllium Corp. of America. The 20 page directory lists and describes the complete line of beryllium copper, beryllium aluminum and beryllium nickel alloys. Data on pure beryllium metal and beryllium oxide are included.

Circle No. 170

Magnesium Topics: A publication of the Dow Chemical Co., "Dow Magnesium Topics" reviews both established uses and suggested new uses of magnesium metal.

Circle No. 171

Manual on Aluminum Alloys: Alloy specs, nominal compositions, properties, heat treatment, effect of alloying elements and much other data concerning aluminum alloys are contained in a 60 page handbook from Federated Metals Div., American Smelting & Refining Co. Specific processing of these alloys, such as melting and fluxing of die casting alloys, gas removal, moisture effects, etc., are also included.

Circle No. 172

Titanium Metal: The application of titanium to one of the newest fighter aircraft is described in the October, 1955 issue of the Rem-Cru Titanium Review.

Circle No. 173

Aluminum Bronzes: A 32 page booklet on aluminum bronzes has been published by W. W. Alloys, Inc. Of value to the designer is basic information on the properties, composition and functions of aluminum bronze alloys as furnished by the company in sand, centrifugal, investment and permanent mold castings, hammer forgings and heat-treated and machined parts.

Circle No. 174

Stainless Steel Castings: A new 29 page data book has been released by Allegheny Ludlum Steel Corp. on corrosion and heat resisting castings in Allegheny Metal. The chemistry, physical and mechanical properties of the cast metals are given together with examples of typical large and small castings and recommended uses.

Circle No. 175

Alloy Reference Book: A new, 23 page reference book on die casting alloys has been issued by Henning Bros. & Smith, Inc. In addition to giving the chemistry and physical properties of aluminum lead and zinc base die casting alloys the booklet contains much useful information on alloy requirements, dimensional stability, alloy dies, etc.

Circle No. 176

Alloy Steels: A colorful brochure entitled "Alloy Steels" has been issued by the Shef-

METALS & ALLOYS *(continued)*

field Steel Div. of Armco Steel Corp. The brochure describes two low-alloy, high-strength steels. Considerable technical information is included.

Circle No. 177

Casting Alloys: A group of brochures published by the Geo. Sall Metals Co., Inc. gives the properties, uses, machining, etc. of some copper base and aluminum base alloys.

Circle No. 178

Magnesium: What magnesium is, what it will do, how to use it and other questions are answered in a brochure published by the Magnesium Association.

Circle No. 179

Aluminum Alloy Guide: An aluminum alloy guide, in the form of a slide rule, has been prepared by the Howard Foundry Co. Specification number, composition, properties, etc. are all given for sme 61 different alloys, or tempers, for sand and permanent mold castings.

Circle No. 180

Meehanite Casting Chart: A wall chart containing the complete design and engineering properties of the various types of Meehanite castings available has been prepared by the Meehanite Metal Corp.

Circle No. 181

Small Ingots of Special Alloys: A new metal service inaugurated by the Allied Products Div. of the Hamilton Watch Company will produce small ingots (10 lbs.) of special metals and alloys to meet close specifications. Also included in the new service will be the fabricating, rolling, heat treating and finishing of special alloys. Both regular and vacuum melting are employed in producing ingot. A 16-page booklet just released describes the facilities available.

Circle No. 182

New Alloy Series: A new series of hardenable corrosion resistant steels has been introduced by Cooper Alloy Corp. The alloys are all of the 19% Chromium, 9% Nickel type with varying amounts of molybdenum, copper and silicon. Carbon and manganese are both controlled at low levels. Complete data on these alloys is available.

Circle No. 183

New Titanium Alloy: A new bulletin describing the MST 6A1-4V titanium alloy has been prepared by Mallory-Sharon Titanium Corp. The bulletin lists metallurgy and chemistry of the alloy, properties, and recommended heat treatment, forging and welding procedures.

Circle No. 184

Refractory Metals: An external house organ "Fansteel Metallurgy" which is devoted to applications of tungsten, molybdenum, tantalum and columbium is published by Fansteel Metallurgical Corp.

Circle No. 185

Titanium: Progress Report No. 2 on the production, properties, applications and fabrication of titanium is now available from E. I. du Pont de Nemours & Co., Inc.

Circle No. 186

Metals and Alloys: A new booklet on metals and ferro-alloys made by the company has been prepared by the Shieldaloy Corp. The booklet features a listing of applicable products to fit specific industrial needs.

Circle No. 187

Production Metallurgy Notes: A new publication, "The Alloy Specialist" has been brought out by the Cannon-Muskegon Corp. containing practical notes and tips on production metallurgy. The current issue No. 51 is a nine page one aimed specifically at the investment foundry.

Circle No. 188

Die Casting Alloys: The chemistry, metallurgy and properties (as-cast) of the alloys they can supply are all listed in a booklet that has been prepared by the Apex Smelting Co.

Circle No. 189

Molybdenum Processing, Properties: The Tungsten and Chemical Div. of Sylvania Electric Products, Inc. has issued an informative, 20-page brochure on the properties and processing of molybdenum and some of the products made from the metal.

Circle No. 190

Aluminum Application Booklet: The uses of aluminum in the process industries is the subject of a new booklet released by the Aluminum Co. of America. Aluminum uses covered include heat exchanger tubes, coiled tube, steam piping, pipe and fittings, tank cars, bus bars, etc.

Circle No. 191

POWDER METALLURGY EQUIPMENT

Compacting Presses: Two bulletins available from Baldwin-Lima-Hamilton Corp. describe Model C, 20-A and 45-A presses for metal powders. Capacities range from 75 to 200 tons.

Circle No. 192

Sintering Furnaces: A group of brochures issued by The Electric Furnace Co. describe sintering furnaces heated with oil, gas, or electricity. The advantages of each type are discussed and operational examples given.

Circle No. 193

Powdered Metal Tools: A 35 page booklet published by Cleveland Tool & Die Co. describes the many types of tools and dies regularly made by them. Included are examples of simple and complex tooling that has been made for compacting metal powders.

Circle No. 194

Metal Powder Press: A specification sheet describing the Dorst automatic press for powdered metals is available from Arnhold Ceramics, Inc. This is a 50 ton capacity press designed and built in Germany.

Circle No. 195

Sintering Furnaces: Sintering furnaces and dissociated ammonia atmosphere generators designed for sintering compacts of metal powders are described in Bulletins B-101 and B-52 from the Drever Co.

Circle No. 196

Powder Lubricant: A new material for use in powder metallurgy as a powder and die lubricant is being marketed by the Semet-Solvay Petrochemical Div., Allied Chemical & Die Corp. The lubricant, called A-C polyethylene, is fully described in data sheets from the company.

Circle No. 197

Dewpoint Indicator: Literature is available from the General Electric Co. on a new portable, manually-operated dew point indicator. The instrument is said to be designed for easy, convenient measurement of the moisture in gases and furnace atmospheres.

Circle No. 198

Comminuting Machines: Pulverizing machines rated from 3 to 300 HP are described in a wall-sized brochure that has been issued by The W. J. Fitzpatrick Co.

Circle No. 199

Furnaces and Gas Generators: A group of three brochures and two charts has been issued by Lindberg Engineering Co. that describe the furnaces and gas atmosphere generators made by that company.

Circle No. 200

Metal Powder Presses: Two brochures available from the Kux Machine Co. describe, in detail, their presses for the powder metallurgy industry.

Circle No. 201

Particle Size Analysis: Super classifiers for particle size fractionization and particle size distribution analysis equipment are discussed in two brochures from The Sharples Corp.

Circle No. 202

Molding Presses: The engineering data and specifications on presses for molding metal powders are available from Haller, Inc.

Circle No. 203

POWDER METALLURGY EQUIPMENT *(continued)*

Full & Semi-Automatic Presses: Bulletin 670, issued by the F. J. Stokes machine Co. describes and gives the vital data on their presses for molding metal powders.

Circle No. 204

Furnaces for Powder Metallurgy: Custom built furnaces are illustrated and described in a brochure covering powder metallurgy furnaces that has been prepared by the Harper Electric Furnace Corp.

Circle No. 205

Gas Carburizing: Gas carburizing and gas carburizing equipment are described in an eight page bulletin that has been issued by the Surface Combustion Corp. Technical data, operating information, process notes and illustrations of typical installations are given.

Circle No. 206

SHELL MOLD SUPPLIES

Shell Cores: Shallway International Corp. has issued a leaflet on a new shell core making method. According to the leaflet, shell cores for experimental purposes can be made with little or no new equipment. All aspects of core making are covered.

Circle No. 207

Shell Molds & Resins: A new technical manual on shell molds, shell mold resins and the shell mold process is available from General Electric Co.

Circle No. 208

Shell Mold Making Machines: Shel-O-Matic, Inc., has a brochure that describes the different machines manufactured by the company for use in the production of shell molds.

Circle No. 209

Shell Mold Manual: Detailed information on setting up a shell mold operation, including procedures, equipment and materials, is offered by Bakelite Div., UCC.

Circle No. 210

Shell Molding Technique: Durez offers a complete guide manual for planning and operating a shell mold foundry.

Circle No. 211

TEMPERATURE MEASURING & CONTROL

Automatic Controls: In a 12 page bulletin, the Automatic Temperature Control Co., Inc. describes some of the many instruments available for automatic control of process variables. These controls include temperature, press cycling, hydraulic systems, etc.

Circle No. 212

Combustion Control: Five descriptive brochures on the control of gas flow and combustion have been prepared by the Selas Corp. of America, Flow gauges, burners, gas pumps, etc. are covered.

Circle No. 213

Industrial Instruments & Equipment: A composite catalog listing and briefly describing the industrial instruments and accessory equipment manufactured by the Brown Instrument Div. of Minneapolis-Honeywell Regulator Co. has been issued.

Circle No. 214

Preheat Chart: A preheat chart for use in determining the proper preheat temperature, and the appropriate Tempil or Tempilstick, prior to welding is available from the Tempil Corp. About 80 metals and alloys are covered.

Circle No. 215

Temperature Control: Temeprature indication, control, permanent record, timer control for ventilation and temperature limit control, plus completely automatic time-temperature program control for a full heating and cooling cycle are all built into the control center that uses Wheelco instruments for nerve centers. Full information about controllers and control centers is available from the Wheelco Instruments Div. of Barber-Colman Co.

Circle No. 216

Temperature Control Catalog: The Burling Instrument Co. has issued a new condensed catalog covering its complete line of differential expansion temperature controls. Included are pictures of current types, a description of their operation, general specifications and an instrument selection chart.

Circle No. 217

Photoelectric Pyrometer: A 4 page bulletin issued by Photoswitch Div., Electronics Corp. of America describes the new photoelectric pyrometer for temperature measurements in the range of 1000 to 5000F. The instrument is said to have a sensitivity of 5 deg. F.

Circle No. 218

Temperature Measurement: Illinois Testing Laboratories, Inc. has just issued a new bulletin briefly describing their line of temperature indicating and control instruments. Included in the bulletin is descriptive information on dewpoint measuring instruments and air velocity meters.

Circle No. 219

Thermocouple Tubes: Claud S. Gordon Co. has issued a new four-page bulletin on their Serv-Rite standard thermocouple protecting tubes and protecting wells.

Circle No. 220

Thermocouple and Pyrometer Supplies: The Bristol Co. has issued a new edition of their 56-page catalog on thermocouples and pyrometer accessories. The bulletin is virtually a buyers' guide and users' manual; it contains essential data on temperature measurement in a variety of industries.

Circle No. 221

Heat Treatment of Steel: A 19 page booklet is available from Leeds & Northrup Co. which describes and illustrates homocarb furnaces and atmosphere generators. A thorough description of the homocarb method of heat treatment is also given.

Circle No. 222

Heater Control Equipment: A four page catalog from Glo-Quartz Electric Heater Co., Inc. describes the line of thermostats, timers, contactors, and cut-off switches available from the company.

Circle No. 223

Thermostat Metals: A new thermostat bi-metal, ASC-3, has been announced by the Industrial Div. of American Silver Co. In a technical data sheet just released, the new material is fully described and all of its engineering properties given.

Circle No. 224

Pyrometry Equipment: The Peerless Electric Co. has issued a brochure describing its Thermocouple Restorer, a device for rewelding and correcting broken or off-calibration thermocouples. Some auxiliary equipment is also described.

Circle No. 225

VACUUM EQUIPMENT

Vacuum Pumps: A set of data sheets describing a line of booster pumps from 4" to 16" has been issued by the F. J. Stokes Machine Co. Pressures from 10 to 500 microns can be achieved with the pumps at high rates of efficiency.

Circle No. 226

Vacuum Furnaces: High vacuum equipment for melting, heat treating, sintering, annealing, brazing, degassing and purification of metals and alloys is described in an 8 page catalog, no. 552, that has been issued by High Vacuum Equipment Corp.

Circle No. 227

High Vacuum Pumps: Mechanical pumps for the rapid evacuation of vessels and for backing-up diffusion pumps are described in a folder from the Kinney Mfg. Div., New York Air Brake Co.

Circle No. 228

Evaporated Films: An engineering report on evaporated films for optical goods has been prepared by Optical Film Engineering Co.

Circle No. 229

VACUUM EQUIPMENT (continued)

Vacuum Metalizing: A highly informative 21 page bulletin on vacuum metalizing has been issued by the F. J. Stokes Machine Co. Described are the process, the materials and where and when this finishing system can be used.

Circle No. 230

Vacuum Coating: A laboratory report from Consolidated Vacuum Corp., gives a complete description of the Type LCI-48C vacuum coating unit. Operating conditions are also given.

Circle No. 231

Vacuum Melting Metal: An eight-page bulletin on the vacuum melting of metals as practiced at Utica Drop Forge & Tool Corp., metals div. has been prepared. This booklet should be of interest to all concerned with product design or metallurgy.

Circle No. 232

Vacuum Furnaces: Featuring a new 50 lb. type vacuum furnace, the latest catalog of Naresco Equipment Co. describes and illustrates the full line of vacuum furnaces and associated equipment sold by that company.

Circle No. 233

Bellows-sealed Vacuum Valves: A six page bulletin has been released by the Kinney Mfg. Div. of The New York Air Brake Co. describing the steel, cast iron and bronze vacuum valves manufactured by the company. Some data on Kinney vacuum pumps is included.

Circle No. 234

FINISHING EQUIPMENT & SUPPLIES

ABRASIVE BELT FINISHING

Abrasive Belt Grinding: The complete line of machines for grinding with abrasive belts is described and illustrated in a new catalog that has been published by the Grinding & Polishing Machinery Corp.

Circle No. 235

Abrasive Belt Polishing: Leaflets from Stephen Bader & Co. describe the several abrasive belt machines available for rough and finish grinding and polishing.

Circle No. 236

Yoke Sanders: For grinding, polishing and deburring on inside and outside contours, Bush Mfg. Co. offers a narrow belt yoke type machine that can be mounted on bench, floor or wall. A descriptive brochure and price list are available.

Circle No. 237

Backstand Idler: A back stand idler for either floor or bench mounting and abrasive paper belts for micro finishing are described in literature that is available from the Fenlind Engineering Co.

Circle No. 238

Abrasive Belt Grinding: A new 31 page booklet on increasing production through the use of abrasive belts has been announced by the Engelberg Huller Co. Application studies are grouped according to each of five types abrasive belt machining.

Circle No. 239

Grinders, Arbors, Sanders: The full line of bench grinders, arbors and sanding discs made by Poly Proudcts Co. is described in a new catalog. Dimensions for mounting, arbor sizes, etc. are given for each unit.

Circle No. 240

Storing Coated Abrasives: Since the performance of coated abrasive depends to a large extent on the conditions under which the product is stored prior to use, the Coated Abrasives Div. of Armour & Co. has prepared a booklet, "How to Store Coated Abrasives."

Circle No. 241

Air Cushioned Contact Wheels: A six page brochure from Nu-Matic Grinders, Inc. describes the air inflated contact wheels made by that company. Longer belt life and better finishing are claimed for the wheels.

Circle No. 242

Contour Following Abrasive Discs: A complete descriptive brochure and price list are available from Foster Supplies Co. on their "Contur" coated abrasive discs and flexible rubber disc holders.

Circle No. 243

Disc Grinders: The Besley-Welles Corp. has just published a new condensed catalog describing the various types of disc grinders available.

Circle No. 244

ABRASIVE BLASTING

Abrasives for Deburring, Smoothing & Polishing: A file sheet showing a few of the many applications of rubberized abrasives and some of the different types of unmounted tips available has been published by the Cratex Mfg. Co.

Circle No. 245

Abrasives Recovery Equipment: An eight page brochure on the different types and sizes of abrasives separators and recovery equipment has been issued by the Pangborn Corp.

Circle No. 246

Blast Cleaning Abrasive: A bulletin describing a cast steel, heat treated, blast cleaning and peening abrasive has been published by Wheelabrator Corp. This eight page booklet contains, among other useful data, a tabular comparison of the characteristics of various types of metallic abrasives.

Circle No. 247

Mold & Die Cleaning: Molds & Dies are cleaned and surface finished easier and faster with Hydro-Finish according to bulletin No. 1403 from the Pangborn Corp.

Circle No. 248

Blast Finishing: Faster, more versatile blast finishing can be done with one of the several finishing machines described in a brochure published by R. W. Renton & Co.

Circle No. 249

ASSEMBLY

Self Tapping Screws: Self tapping screws in a wide variety of threads, types, and styles are described and illustrated in a 4 page brochure issued by the Parker-Kalon Div., General American Transportation Corp.

Circle No. 250

Welding Aluminum & Its Alloys: The production of stronger, more uniform resistance welds on aluminum and aluminum alloys is discussed in a new report that has been published by the Diversey Corp. Using the process described, welds with greater shear strength are said to be obtained with increased tip life.

Circle No. 251

Adhesives, Coatings & Sealers: A new illustrated folder on the use of adhesives, coatings and sealers for joint-sealing, and bonding and protecting sheet metal in manufacturing and construction is available from Minnesota Mining & Mfg. Co.

Circle No. 252

Joining of Stainless Steels: A 24 page booklet has been published by the Crucible Steel Co. of America on the welding,

ASSEMBLY *(continued)*

brazing and soldering of stainless steels. Seventeen methods of joining are discussed.

Circle No. 253

Threaded Inserts: Four new bulletins have just been published by Heli-Coil Corp. that describe the many different threaded inserts and give examples of their applications. A considerable amount of design and drafting information is included.

Circle No. 254

Multiple Stud Driving: A 4 page reprint on multiple stud driving and the many applications of the machines that do the driving can be secured from Studrive, Inc.

Circle No. 255

Wire Thread Inserts: Heli-Coil Corp., has a new "Design Manual & Catalog" (bulletin 625 A) that gives basic design data for the use of wire thread inserts and lists the standard types and sizes available.

Circle No. 256

Air Power: Mead Specialties Co. has a 53 page catalog of the various different air powered devices made by that company. Both equipment and suggested applications are shown and described.

Cirile No. 257

How To Prevent Thread Shearing: A descriptive folder on the use of self-tapping threaded inserts to prevent thread stripping in soft materials, such as the die cast metals, plastics, etc., is offered by Groov-Pin Corp.

Cirile No. 258

BARREL FINISHING

Faster Barrel Finishing: Finishing speeds up to 25% faster are claimed for barrels and abrasives described in literature from the Grav-i-Flo Corp.

Circle No. 259

Barrel Finishing Media: Universal Tumbling Supply Co. has six data sheets available that describe the tumbling media, chips and compounds that are offered by the company.

Circle No. 260

Simplified Barrel Finishing: Details on methods, equipment and supplies for using the Abbott barrel finishing process are offered by Abbott Ball Company.

Circle No. 261

Close-Tolerance Barrel Finishing: Barrel finishing that is said to hold close dimensional limits is the subject of a booklet available from Almco Supersheen.

Circle No. 262

Surface Finishing In Barrels: Fast, economical barrel finishing with the Roto-Finish method is explained in literature offered by the Roto-Finish Co.

Circle No. 263

Barrel Finishing Media & Supplies: The new Honite catalog from Minnesota Mining & Mfg. Co. contains illustrations and description of a complete line of barrel finishing media, equipment and supplies.

Circle No. 264

Tumbling Abrasive Catalog: The Simonds Abrasive Co. has published a catalog bulletin describing its Borolon Tumbling Abrasive media. The bulletin describes the proper size and type of abrasive for all sorts of barrel finishing.

Circle No. 265

Barrel Finishing: Production barrel finishing in machines that require a minimum of floor space and can be tailored to fit available space are described in a brochure from Miller Machine Tool & Gauge Co.

Circle No. 266

Tumbling Barrels: A new two-color bulletin describes and illustrates tumbling barrels for large scale, low cost finishing operations. The barrels described employ the dry process to cut down deburr and polish. Copies of the bulletin are available from Tumb-L-Matic, Inc.

Circle No. 267

Materials for Barrel Finishing: Lord Chemical Corp. has published a catalog that describes many of the products made for barrel finishing. Full technical data are given for each material.

Circle No. 268

Barrel Finishing: Four new brochures on barrel finishing from heavy deburring and cutting to burnishing and cleaning have been issued by Newton Industries, Inc.

Circle No. 269

Tumbling Machines: A new catalog has been issued by Rampe Mfg. Co. showing their line of tumbling machines, screen separators, Nylaslugs, etc. A price sheet is included.

Circle No. 270

CLEANING

Electrocleaning of Die Castings: A folder issued by Oakite Products, Inc. describes and gives step-by-step instructions for the eltctrocleaning of zinc base die castings prior to plating.

Circle No. 271

Vapor Degreasing—Advantages, Equipment: How vapor degreasing may be used to remove grease, oil, resin, wax or lubricants from a metal surface before processing, is illustrated in a new bulletin from Ramco equipment is illustrated.

Circle No. 272

Cleaning & Surface Treating: The cleaning and surface treatment of metals is described and the equipment for that work listed and illustrated in a new catalog from Metalwash Machinery Corp.

Circle No. 273

Spin Drying: A new 4 page bulletin has been published by the New Holland Machine Co. describing the spin-drying of small parts.

Circle No. 274

De-Rusting Compound: A technical bulletin describing a new, non-electrolytic, derusting compound called Alka-Deox 114 has been prepared by Enthone, Inc.

Circle No. 275

Spray Washing: A four page brochure describes some of the products of Turco Products, Inc. that are useful on continuous spray washing systems.

Circle No. 276

Aluminum Finishing Chemicals: Two four page folders devoted exclusively to the chemicals for cleaning and treating aluminum have been issued by Diversey Corp.

Circle No. 277

Cleaning Manual: A new manual on industrial cleaning equipment and materials entitled "How To Select The Proper Method, Machine and Material" has been published by Magnus Chemical Co., Inc.

Circle No. 278

Cold Cleaning Metal: In a bulletin recently issued by International Chemical Co., Inc. a new cold cleaner for metals, International Compound No. 504, is described. In addition to cleaning, at room temperatures, the compound is said to have good, temporary rust preventive properties.

Circle No. 279

Aluminum Oxide Stripper: A new non-chromic acid stripper for removing all types of anodic coatings from aluminum parts and racks has been announced. The new material is alkaline in nature and contains no ingredients which make waste disposal a problem. Complete literature is available from Enthone, Inc.

Circle No. 280

Vapor Degreaser: Manufacturers Processing Co. has a leaflet that describes a new vapor degreasing machine recently developed. Direct washing with solvent may also be employed when desired.

Circle No. 281

Solvent Detergents: Oakite Products, Inc. has revised their booklet on solvent detergents. The materials described combine the oil and carbon dissolving abilities of solvents with the penetrating, wetting-out and water rinsing qualities of surface active agents.

Circle No. 282

DRILLING, TAPPING & MACHINING

Controlled Air Power: A new, 8 page book with colored illustrations has been prepared by The Bellows Co. This bulletin ML-3, illustrates and describes the complete line of controlled air-power devices manufactured by the company.

Circle No. 283

Drilling and Tapping Head: A new catalog listing the complete line of multiple spindle drilling, tapping, counterboring and chamfering heads has been issued by Errington Mechanical Laboratory, Inc.

Circle No. 284

Cutting Coolant: Complete data and instructions for use of a new water soluable coolant, Hypercut XX, have been published by Destiny Products Co.

Circle No. 285

Micro-Drills: A brochure published by Louis Levin & Son, Inc. lists all of the drills, both right hand and left hand, and the center drills made by that company. Small precision drill presses are also shown.

Circle No. 286

Cross Slide Rotary Table: A new cross slide, rotary table for use on milling, drilling, profiling and other machine tools is described and illustrated in a new brochure from Morrison Engineering Co.

Circle No. 287

Sliding Head Drill: A new sliding head drill has recently been introduced by Cincinnati Lathe & Tool Co. The new drill is fully described in a nine page catalog.

Circle No. 288

Deburring & Chamfering Tools: The Cogsdill Tool Products, Inc. has just published a 12 page catalog on the line of deburring and chamfering tools made by that company. In addition to the types of tools, the catalog shows a number of typical operations with suggestions of how to do the job.

Circle No. 289

New Honing Compound: Technical information has been released by the International Chemical Co. on a new heavy, viscous oil compound for honing, lapping and superfinishing operations. The new compound No. 155-DS is said to be completely non-irritating to the skin.

Circle No. 290

Cut-Off Wheels: A new line of cut-off wheels called the B7 line is described in literature published by the Bond Abrasives Div., The Carborundum Co. The wheels are aluminum oxide resinoid type.

Circle No. 291

Lead Screw Tapper: How to produce "gauge perfect" tapping without any part spoilage, stripped threads or thread distortion is indicated in a new illustrated brochure from Procunier Safety Chuck Co. about its new lead screw tapper. New operating principle features "finger-tip" control to eliminate operator fatigue.

Circle No. 292

Sensitive Drilling Machine: The new Edlund Model IF sensitive drilling machine is the subject of a bulletin from Edlund Machinery Co. Cost-cutting features, such as infinitely variable speed, micrometer graduated depth control, etc., are included.

Circle No. 293

Automatic Drill Head: A new descriptive catalog has been issued by The Dumore Co. which describes the new fully automatic Dumore drill head. The bulletin describes the unit and gives many present and suggested applications. A price sheet is included.

Circle No. 294

Equipment For Drilling Holes: Two types of automatic equipment are offered by The General Pacific Corp. in a leaflet on hole drilling equipment: an automatic drill feed and an automatic deep hole driller. Equipment is useful for drilling, tapping, fly cutting, spinning, reaming, threading, spot facing, counterboring, hollow milling and skip drilling.

Circle No. 295

Rotary Table: A new rotary table embodying a cross slide with an eight inch travel is described in a folder from Advance Products.

Circle No. 296

Cutting Tools: A six page bulletin describes and illustrates the complete line of cutting tools made by the Detroit Reamer & Tool Co. Because the subland tools described are chosen on the basis of material to be cut, finish required, etc., this short treatise is of particular value.

Circle No. 297

Air & Hydraulic Cylinders: A new catalog on air and hydraulic cylinders has been published by Modernair Corp. The catalog gives dimension drawings, installation, operating and technical data and present prices.

Circle No. 298

Carbide Prices and Styles: An 8 page booklet giving the latest prices and styles for premium grades 548 and 434 cemented carbides is available from Adamas Carbide Corp.

Circle No. 299

High Speed Rotary Hand Tools: A thoroughly illustrated 18-page descriptive catalog of hand-held rotary power tools has been issued by Precise Products Corp. The several different models and the many different uses of the tool are described and illustrated. A price list is included.

Circle No. 300

Catalog of Cemented Carbides: A new catalog has been issued by the Carboloy Dept. of General Electric Co. which lists all of the prices and specifications on standard cemented carbide tools and blanks. Included are specs, and prices on throw-away inserts, new saw tips, wood working knife blades, and other shapes.

Circle No. 301

Carbide Tooling: A new 33 page catalog has just been published by Valenite Metals Corp. listing and describing their carbide tips, tools, throw-away blanks and holders. A feature of the catalog is the carbide equivalent charts to aid in the selection of the proper grade for different applications.

Circle No. 302

Precision Boring: Ex-cello Tool Tips for May, 1955, describes several different boring jobs that can be done at high speeds with a high degree of accuracy on Ex-Cello machines.

Circle No. 303

1955 Lathe Catalog: An all new catalog on lathes and lathe accessories has been issued by the Sheldon Machine Co., Inc. The 24-page booklet includes information and specifications on the Sheldon lathes now in production and also a section on how to select a Sheldon lathe.

Circle No. 304

Lead-Screw Tapping: Equipment of the latest design with an all electric operation and control and designed for the fastest, most accurate tapping is described in bulletin A.T.U. from Ettco Tool Co., Inc.

Circle No. 305

Multiple Hole Drilling: Multiple drilling of from 2 to 8 holes at a time is now possible with the new drill head described in catalog no. 851 from Commander Mfg. Co.

Circle No. 306

Carbide End Mills: A bulletin describing a completely new line of solid carbide end mills has just been announced by N. A. Ford Mfg. Co., Inc. Eleven different types of solid carbide mills for rough and finish machining are listed.

Circle No. 307

Tool Selector Guide: A new pocket guide for the proper selection of Talide metal tools for various jobs has been issued by Metal Carbides Corp. Grade, type, cutting speeds, etc. for all materials is given. Proper rake and relief angles for different materials and types of cut are also given.

Circle No. 308

Midget Mills: A new line of 3/16" shank midget mills in the so-called Carbo-Mill line has been announced by Severance Tool Industries, Inc. A brochure, describing these new mills and some additions to the older lines is available.

Circle No. 309

DRILLING, TAPPING & MACHINING *(continued)*

Tapping Heads: Featuring a positive torque control which instantly stops the tap when it becomes dull, loaded or bottoms is one of the features of the new Tapmatic head described in a brochure from Tapmatic Corp.

Circle No. 310

Automatic Drilling Unit: A new catalog, No. 55-D, has been issued by Dumore Precision Tools which describes and illustrates their new series 26 Automatic Drill Unit. Also described is a new electronic repeat cycle timer to automatically withdraw the drill at desired intervals.

Circle No. 311

Casting Impregnation: A brochure on casting impregnation has been prepared by Western Sealant Co. The process and material described is reported to completely eliminate porosity in castings and to meet specs. for Army, Navy and Airforce contracts.

Circle No. 312

Plastic Metal: A new plastic filler metal, an aluminum base material that is handled like putty and hardens to metal, has been announced. After hardening the material can be worked with ordinary metal working tools. No heat or pressure are needed to cure the material. Full descriptive material is available from Destiny Products Co.

Circle No. 313

Impregnating Equipment: A new bulletin has been issued by Prenco Products, Inc. which describes the controlled temperature reservoir and pump units used in casting impregnation. A new metal oxide sealant for closing micro-porosity is also described.

Circle No. 314

PAINTING MATERIALS & EQUIPMENT

Diptank and Flowcoat Finishing: Two new bulletins have been prepared by the Du Pont Industrial Finishing Div. on diptank and flowcoat finishing. The advantages and disadvantages of the two methods are discussed and much technical information for setting up and using each method is given.

Circle No. 315

Water Thinned Paints: A new line of water thinned paints and lacquers, said to have good adhesion, toughness, moisture and chemical resistance, is described in a brochure from Universal Paint & Varnish, Inc. They are reported to be suitable for decorative coating of untreated die castings.

Circle No. 316

Automatic Mask Washing: A new booklet has been prepared by Conforming Matrix Corp. describing and illustrating the automatic mask washing machines made by that company. Savings in time and labor from 35% to 50% are claimed for the machines.

Circle No. 317

Hot Spraying: The advantages and economies of hot spraying of paints and lacquers and the equipment for hot spraying are given in material that has been published by The Spee-Flo Co.

Circle No. 318

Spray Equipment & Paint Heaters: Two bulletins have been published by The DeVilbiss Co. describing their spray equipment for catalyst and additive materials and their paint heating units.

Circle No. 319

Masking Materials: A new bulletin has been issued by W. H. Brady Co. which describes the advantages of pre-cut masks made of pressure sensitive materials. Suggested uses are for all types of painting where masking is needed, sand blasting, tumbling, etc. The same material is recommended for sealing and protective application.

Circle No. 320

Caps & Plugs: A brochure has just been released by Ray A. Scharer & Co. that describe and illustrates the Shurclose caps and plugs for sealing, protecting, masking, etc.

Circle No. 321

Spray Masks: A new 20 page brochure describing paint spray masks and much of the associated equipment for use with these masks has been issued by Wm. M. Fiore, Inc.

Circle No. 322

Metal Finishing Systems: Despatch Oven Co. has issued a 16 page color bulletin on finishing systems for metals. The bulletin gives numerous examples of Despatch installations and lists suggested methods of faster finishing.

Circle No. 323

Spray Decorating Machine: Conforming Matrix Corp. has issued a new descriptive sheet on an air motivated spray decorating machine. The machine described is portable and quite versatile.

Circle No. 324

PLATING & ANODIZING

Improved Chromium Bath: Information is now available on a new additive for chromium plating baths that is said, by commercial platers who have used it, to materially increase the throwing power of chromium plating baths. Copies of the reports of users are available from Wagner Bros.

Circle No. 325

Electrolytic Stripping: The electrolytic stripping of chromium, nickel and copper from zinc base die castings is discussed in a report on Enstrip L-88 that has been issued by Enthone, Inc.

Circle No. 326

Bright Nickel Process: Bulletin No. 113 from Lea Ronal, Inc. gives all of the technical information needed for the use of that company's bright nickel process.

Circle No. 327

Fully Dense Chromium Plating: A new technical bulletin CFC-1 has been published by the United Chromium Div. of Metal & Thermit Corp. describing the new Crack Free chromium process. Comparative photomicrographs are shown.

Circle No. 328

Bright Nickel Processes: Three technical bulletins Nos. NP-514H, NP-41 and NP-31H, have been issued by Udylite Corp. Complete details of each of three bright nickel processes are given.

Circle No. 329

Metal Plating Chemicals: The Baker & Adamson Div. of Allied Chemical & Dye Corp. has prepared a brochure on their metal fluoborates for use in electroplating. Complete details of the materials, their advantages and uses are given.

Circle No. 330

Plating Anodes: In a seven page catalog, R. Lavin & Sons, Inc. gives technical information on electrolytic copper anodes and list, with chemical analysis, some of the other anodes regularly made by the company.

Circle No. 331

Plating Plant Corrosion: Corrosion in the plating plant is an ever present problem. According to new literature just released it can be prevented or minimized. United Chromium Div. of Metal & Thermit Corp. has a four page brochure available that describes a line of corrosion inhibiting materials.

Circle No. 332

Plating Room Chart: The Frederic B. Stevens Co. has published a wall chart for plating rooms that provides space to list the minimum stock of plating supplies that should be carried as well as the minimum practical order. Also on the same chart are emergency first aid measures for the plating room.

Circle No. 333

Plating Rectifiers: A 12-page illustrated catalog entitled "A Guide to Better Plating Power" has been published by the Bart-Messing Corp. The catalog covers the company's complete line of selenium rectifiers.

Circle No. 334

Automatic Plating: A bulletin B 50-55 has been issued by Wagner Bros., Inc. that describes the company's new, fully automatic plating machine.

Circle No. 335

Plating Reference Guide: A new bulletin has been issued by Hanson-Van Winkle-Munning Co. listing the over 260 products of the company under 63 different classifications. A separate section of the bulletin outlines 17 plating and cleaning processes and their applications.

Circle No. 336

Bright Anodized Aluminum: How to color anodized aluminum and the colors that can be secured are given in a brochure from the Sandoz Chemical Works, Inc.

Circle No. 337

Plating Equipment: Filters, pumps, mixers and agitators and other plating room equipment are described and illustrated in catalogs from Alsop Engineering Corp.

Circle No. 338

POLISHING & BUFFING

Buffing & Finishing Compounds: A revised technical bulletin, T-5, describing the complete line of buffing and finishing compounds made by The Globe Compound Co., Inc. has just been issued. Both stick and liquid compounds are covered as are special cutting and coloring materials for stainless steel, special non-ferrous metal rouge and other special materials.

Circle No. 339

Finishing Stainless Steel: Due to an increasing demand for laboratory-verified reports on the surface finishing of stainless steel, Frederic B. Stevens, Inc. has prepared bulletin PP-124 "Successful Stevens L. V. Finishing of Stainless Steel." The bulletin also describes how manufacturers may make use of the company's service laboratory report service.

Circle No. 340

Finishing Compounds: A group of separate catalog pages available from Lea Mfg. Co. describe some of the special Lea compounds for different finishing operations.

Circle No. 341

Buffing & Finishing: An 11 page reprint available from Formax Mfg. Corp. gives technical information on buffing, polishing and grinding.

Circle No. 342

Buffing, Polishing & Plating: A group of five new bulletins has been issued by Hanson-Van Winkle-Munning Co. on buffing, plating, plating equipment and rectifiers.

Circle No. 343

Automatic Polishing & Buffing: For parts to be buffed and polished that can be mounted and operated on a rotary table, Hammond Machinery Builders, Inc. offers a rotary automatic machine to grind, polish, buff and deburr. A descriptive pamphlet of the machine is available.

Circle No. 344

Polishing & Buffing Machine: In a four page brochure, the Murray-Way Corp. describes and illustrates its heavy duty, multi-position polishing and buffing machines. Maximum flexibility, economy and efficiency are claimed for these units.

Circle No. 345

Finishing Compounds: A two page data sheet has recently been issued by Russell H. Burns Compound Co. describing and giving technical data on a full line of buffing, polishing and coloring compounds. Materials are described for operations ranging from deburring and chamfering to fine finishing of chromium plate and cutlery. Rouges are also described for jewelry, sterling or silver plate and for precision steel dies.

Circle No. 346

Finishing Circular Parts: Production data and complete information about the machines for the automatic finishing of circular parts is available from J. M. Nash Co.

Circle No. 347

Buffing & Grinding Chart: Hanson-Van Winkle-Munning Co. has issued a new chart for determining the surface speed of buffing and grinding wheels. Covered are wheels from 1" to 60" in diameter at speeds from 220 to 20,000 rpm.

Circle No. 348

Buffing & Polishing Data Sheet: A new data sheet has been published by Atlantic Compound Co. giving general information on Atlantic Greaseless Compound specifications, types of finish obtained and applications on a wide variety of materials.

Circle No. 349

PROTECTIVE TREATMENTS

Protecting Aluminum: Technical Service Data Sheets No. 7-16-1000-2 has been issued by the American Chemical Paint Co. This report covers Alodine No. 1000, a protective material for aluminum that does not change the appearance of the metal.

Circle No. 350

Primer for Zinc: Two bulletins have been issued by Neilson Chemical Co. that describe Galvaprep, a primer material for zinc base castings and zinc coated steel. With the material, etching prior to painting is said to be unnecessary.

Circle No. 351

Chromate Treatments: A reprinted study of various chromate treatments, their advantages and disadvantages is available from Allied Research Products, Inc.

Circle No. 352

Aluminum Surface Coating: A new product which forms a chromate coating on aluminum is described in literature that is available from the Chemical Corp. The new surface protective material is said to replace anodizing where hardness is not a problem and will withstand 600 hours salt spray test. It can be dyed many different pastel colors.

Circle No. 353

Rust, Paint, Phosphate Stripper: In a new bulletin, Oakite Products, Inc. describes a new stripper that removes rust, paint and phosphate coatings from metals. The new process is said to eliminate up to six separate operation by older methods.

Circle No. 354

Phosphate Coatings on Steel: A new booklet has been issued by Oakite Products, Inc. entitled "How to Apply Iron Phosphate Coating to Steel in Preparation for Painting". This 12-page booklet points out how the method of application is reflected in the quality of the finish secured.

Circle No. 355

Paint Bond: A four page brochure on bonding materials to hold paint onto metal surfaces has been issued by Turco Products, Inc.

Circle No. 356

Protective Finishing Systems: Two new technical data reports have been released by Heatbath Corp. One covers the chromate finishing of zinc base die castings and the other the bright finishing of aluminum.

Circle No. 357

Magnesium Primer: The Stanley Chemical Co. has issued technical data on a new primer specifically designed for use on magnesium and magnesium base alloys. The new material is designed to check electrolytic decomposition where magnesium is joined to some other metal.

Circle No. 358

Prevent Aluminum From Oxidizing: Prevention of oxidation of aluminum by means of a simple coating process is described in technical data that is available from Conversion Chemical Corp.

Circle No. 359

Chrome Sealer for Aluminum: Conversion Chemical Corp. has data on properties, costs and uses of their new chrome sealer for aluminum. This is a low resistance coating.

Circle No. 360